

Jesse Kaczmariski

Curriculum Vitae

Email me: jikaczmariski@unm.edu

Call me: Upon request

LinkedIn: www.linkedin.com/in/jesse-kaczmariski

Personal Site: www.jessekaczmariski.com

RESEARCH INTERESTS

Energy Economics, Electricity Economics, Environment and Resource Economics, Contingent Valuation

EDUCATION

Ph.D., Economics - The University of New Mexico

Aug 2018 - May 2023

Majors: Environment and Resource Economics, Econometrics

Minor: Public Economics

M.A., Economics - The University of New Mexico

Aug 2018 - Dec 2019

M.S., Resource and Applied Economics - University of Alaska Fairbanks

Aug 2016 - May 2018

B.A., Economics - University of Alaska Fairbanks

Aug 2013 - May 2016

PROFESSIONAL EXPERIENCE

Research Assistant; The University of New Mexico // NM SMART Grid Center

Aug 2018 - Present

- Designed, conducted, and published academic research related to economic dimensions of distributed-feeder microgrid installations in the American Southwest.
 - Developed two separate contingent valuation surveys which included experimental designs to elicit willingness-to-accept and willingness-to-pay figures. Administered these surveys using the Qualtrics platform. Took on the role of lead author and published two peer-reviewed academic articles.
 - Designed algorithms to identify outlier electricity consumption by using econometric methods and high resolution smart meter data. Additionally, designed and administered a survey collecting dwelling, household, attitudinal, and socioeconomic characteristics on these residents to assess their statistical significance in predicting consumption patterns.
 - Developed a benefit-cost framework for identifying the distributional effects of community microgrid installations for resiliency purposes.
- Mentored doctoral students by assigning tasks, coauthoring, and providing academic support.
- Presented research findings to academic, industry, and nontechnical audiences. Speaking engagements totaled 10 conferences.
- Developed several Python scripts for automating data collection, cleaning, statistical analysis, graphics, and API interfacing. Source code contributor to the NREL REopt API tool.

Teaching Assistant (Instructor of Record); The University of New Mexico

Aug 2021 - Dec 2021

- Develop and deliver a lecture style introductory course, Principles of Macroeconomics, to approximately 55 undergraduate students. Assignment duties included developing all course materials (lectures, assignments, exams, etc.), delivering all material, and assessing student performance throughout the 14-week period.

Graduate Assistant; The University of New Mexico

Aug 2018 - May 2019

- Provide instructor support with creating assignments and exams, delivering lectures, hosting office hours, and assessing student work. Courses include ECON 307 Economic Tools, ECON 342 Environmental Economics, and ECON 300 Intermediate Microeconomics.

- Developed and delivered an introduction to business course for the Rural Alaskan Honors Institute (RAHI). This program saw high school seniors from rural Alaskan villages travel to UAF for a condensed summer program. In this course I was the sole instructor and delivered an entire 14-week course over a shortened period.

- Sole instructor for AIS F101 Effective personal Computer Use, both online and in person. Host office hours, evaluate students, and create assignments.

RESEARCH

Peer Reviewed

1. Kaczmarski, Jesse. 2022. "Public Support for Community Microgrid Services." *Energy Economics* 115 (November): 106344. <https://doi.org/10.1016/j.eneco.2022.106344>.
2. Kaczmarski, Jesse, Benjamin Jones, and Janie Chermak. 2022. "Determinants of Demand Response Program Participation: Contingent Valuation Evidence from a Smart Thermostat Program." *Energies* 15, no. 2: 590. <https://doi.org/10.3390/en15020590>.
3. Kaczmarski, Jesse, and Jungho Baek. 2018. "On the Asymmetric Effects of Oil Price Changes on Alaska Oil Tax Revenue." *Energy Sources, Part B: Economics, Planning, and Policy* 13 (1): 60–65. <https://doi.org/10.1080/15567249.2017.1403500>.

Working Papers

1. Kaczmarski, Jesse. "Estimating the Marginal Effects of Exogenous Renewable Generation on Battery Dispatch: Evidence from the California Independent System Operator." <https://www.jessekaczmarski.com/research>
2. Kaczmarski, Jesse, and Benjamin Jones. "The Marginal Generation and Emissions Impacts of Hydropower: Evidence from the Colorado River Storage Project." <https://www.jessekaczmarski.com/research>
3. Chermak, Janie, Jesse Kaczmarski, Wilfred Osei, and Yuting Yang. "A Framework for Estimating the Economic and Distributional Impacts of Community Microgrids."

PRESENTATIONS

10/2022	39th USAEE/IAEE North American Conference - Speaker
05/2022	New Mexico EPSCoR SMART Grid Center All Hands Meeting; Poster (1st place winner)
11/2021	2021 Shared Knowledge Conference UNM; Poster
11/2021	New Mexico Research Symposium; Poster (2nd place winner), 3-minute thesis, award for significant contributions to NM EPSCoR SMART Grid Center
06/2021	IAEE Energy, Covid, and Climate Change Conference; Speaker
05/2021	New Mexico EPSCoR SMART Grid Center All Hands Meeting; Poster (2nd place winner)
06/2020	AERE at WEAI; Speaker and Discussant
06/2020	New Mexico SMART Grid Center STEMAP; Speaker
11/2020	New Mexico Research Symposium; Graduate Panelist
11/2019	New Mexico Academy of Sciences; Speaker and Poster

TEACHING EXPERIENCE

Panel A: Sole Instructor

Subject	Title	Institution	Sem/Year	Rating
ECON 2110	Macroeconomic Principles	UNM	F21	4.2/5.0
BA 151	Introduction to Business	UAF	SS18	4.2/5.0
AIS F151	Effective Personal Computer Use	UAF	F16 - SS18	4.1/5.0

Panel B: Teaching/Graduate Assistant

Subject	Title	Institution	Sem/Year
ECON 307	Economic Tools	UNM	F18
ECON 342	Environmental Economics	UNM	F18
ECON 300	Intermediate Microeconomics	UNM	S19

SKILLS

Software

Python, Stata, R, IMPLAN, Qualtrics, BenMAP-CE, GoldSim, Quantum-GIS, REopt, LATEX, Microsoft Office Suite

Concepts

Time series Data Analysis, High-frequency Data Analysis, Big Data, Cross Sectional Data Analysis, Inferential Statistics, Survey Design, Contingent Valuation, Input-Output Analysis, Policy Analysis, Policy Recommendations, Stakeholder Engagement

REFERENCES

Dr. Benjamin Jones

Associate Professor, Committee Chair
Department of Economics
The University of New Mexico
bajones@unm.edu

Dr. Janie Chermak

Professor, Committee Member
Department of Economics
The University of New Mexico
jchermak@unm.edu

Dr. Robert Berrens

Professor, Committee Member
Department of Economics
The University of New Mexico
rberrens@unm.edu